CLAIMS

:	1	1. A watch face with selective backgrounds comprising:
	2	a polarizer layer for polarizing light passing therethrough;
	3	a liquid crystal display disposed beneath the polarizer layer wherein the
	4	liquid crystal display selectively rotates or does not rotate polarized
	5	light;
	6	a reflective polarizer layer located beneath the liquid crystal display and
	7	positioned in a first orientation relative to said polarizer layer, wherein
	8	rotated light reflects off the reflective polarizer layer producing a first
	9	background on the watch face and non-rotated light is transmitted
	.0	through the reflective polarizer layer; and
	1	a reflective layer disposed beneath the reflective polarizer layer wherein
	12	the light passed through the reflective polarizer layer reflects off the
	13	reflective layer producing a second background on the watch face.
	1	2. The watch face of claim 1 wherein the polarizer layer comprises a neutral
	2	polarizer.
		3. The watch face of claim 1 wherein the polarizer layer comprises a colored
	1	
	2	polarizer.
	1	4. The watch face of claim 1 wherein the liquid crystal display is a twisted nematic
	2	liquid crystal display.
	1	5. The watch face of claim 1 wherein the liquid crystal display is an electronically
	2	controlled birefringence liquid crystal display.
	1	6. The watch face of claim 1 wherein the reflective polarizer layer is positioned in a second orientation relative to said polarizer layer, wherein non-rotated light reflects off
	2	the reflective polarizer layer producing the first background on the watch face and rotated
	3	
	4	light is transmitted through the reflective polarizer layer.

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- The watch face of claim 1 wherein the reflective layer is a patterned surface.
- 1 8. The watch face of claim 1 wherein the reflective layer is a colored surface.
- 1 9. The watch face of claim 7 wherein the reflective layer is a colored surface.
- 1 10. The watch face of claim 1 wherein the reflective layer is a mirrored surface.
- 1 11. The watch face of claim 7 wherein the patterned surface is an analog clock face.
- 1 12. The watch face of claim 1 wherein the first and second background are colored.
- 1 13. The watch face of claim 1 wherein the first background is a first color and the second background is a second color.
- 1 14. The watch face of claim 1 wherein the first background is a silvered mirror.
- 1 15. The watch face of claim 1 further comprising a color changing layer disposed directly above or directly below the liquid crystal display.
- 1 16. The watch face of claim 15 wherein the coloring lay changing comprises a colored polarizer.
- 1 17. The watch face of claim 15 wherein the color changing layer comprises a retardation film.
- 1 18. The watch face of claim 1 wherein said watch face includes a hole extending axially therethrough to provide for movement of analog time watch hands.
- 1 19. The watch face of claim 1 wherein said watch face is disposed within a watch 2 module.
- 1 20. The watch module of claim 20 wherein said module is round and said watch face 2 is octagonal.

- 1 21. The watch face of claim 1 further comprising voltage switching means, wherein
- 2 said switching means controls a voltage applied to said liquid crystal display.
- 1 22. The watch face of claim 22 wherein said voltage switching means is electronically
- 2 actuated.
- 1 23. The watch face of claim 22 wherein said voltage switching means is manually
- 2 actuated.
- 1 24. The watch face of claim 22 wherein said voltage switching means alternates
- 2 between a first and a second voltage.
- 1 25. The watch face of claim 24 wherein said first voltage produces the first
- background and said second voltage produces the second background.
 - 1 26. The watch face of claim 25 further comprising means for adjusting said second
- 2 voltage.
- 1 27. The watch face of claim 27 where in means for adjusting is electronically
- 2 actuated.
- 1 28. The watch face of claim 27 where in means for adjusting is manually actuated.

A watch face with selective backgrounds comprising:

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- 1 35. The watch face of claim 29 wherein the reflective polarizer layer is positioned in a
- 2 second orientation relative to said polarizer layer, wherein non-rotated light reflects off
- 3 the reflective polarizer layer producing the first background on the watch face and rotated
- 4 light is transmitted through the reflective polarizer layer.
- 1 36. The watch face of claim 29 wherein the reflective layer is a patterned surface.
- 1 37. The watch face of claim 29 wherein the reflective layer is a colored surface.
- 1 38. The watch face of claim 29 wherein the reflective layer is a colored surface.
- 1 39. The watch face of claim 29 wherein the reflective layer is a mirrored surface.
- 1 40. The watch face of claim 36 wherein the patterned surface is an analog clock face.
 - 41. The watch face of claim 29 wherein the first and second background are colored.
 - 42. The watch face of claim 29 wherein the first background is a first color and the second background is a second color.
 - 1 43. The watch face of claim29 wherein the first background is a silvered mirror.
 - 1 44. The watch face of claim 29 further comprising a color changing layer disposed
 - 2 directly above or directly below the liquid crystal display.
 - 1 45. The watch face of claim 44 wherein the color changing layer comprises a colored
 - 2 polarizer.
 - 1 46. The watch face of claim 44 wherein the color changing layer comprises a
 - 2 retardation film.
 - 1 47. The watch face of claim 29 wherein the watch face facilitates analog or digital
 - 2 time display.
 - 1 48. The watch face of claim 29 wherein the watch face includes a hole extending
 - 2 axially therethrough to provide for analog time movement of watch hands.

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- 1 49. The watch face of claim 29 wherein the watch face is disposed within a watch
- 2 module.
- 1 50. The watch module of claim 29 wherein said module is round and said watch face
- 2 is octagonal.
- 1 51. The watch face of claim 29 further comprising a voltage switching means,
- wherein said voltage switching means controls a voltage selectively applied to at least
- one of a plurality of segment patterns, wherein each pattern is comprised of at least one
- 4 of the plurality of distinct segments.
- 1 52. The watch face of claim 51 wherein said voltage switching means alternates the
 - voltage between a first voltage and a second voltage.
 - 53. The watch face of claim 52 wherein said first voltage causes each distinct
- 2 segment in the at least one of said plurality of segment patterns to rotate polarized light
 - and said second voltage causes each distinct segment in the at least one of said plurality
- 4 of segment patterns to not rotate polarized light.
 - 54. The watch face of claim 51 wherein said voltage switching means is electronically
 - actuated.
 - 55. The watch face of claim 51 wherein said voltage switching means is manually
- 2 actuated.
- 1 56. The watch face of claim 52 further comprising means for adjusting said second
- 2 voltage.
- The watch face of claim 56 where in means for adjusting is electronically
- 2 actuated.
- The watch face of claim 56 where in means for adjusting is manually actuated.
- 1 59. The watch face of claim 51 further comprising a pattern selection means, wherein
- 2 said selecting means controls the selection of at least one of the plurality of patterns.

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- 1 60. The watch face of claim 59 wherein said pattern selection means is electronically
- 2 actuated.
- 1 61. The watch face of claim 59 wherein said pattern selection means is manually
- 2 actuated.

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type liquid crystal displays.

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66.

The watch face of claim 62 wherein the liquid crystal displays are twisted nematic

- 1 67. The watch face of claim 62 wherein the liquid crystal displays are electronically
- 2 controlled birefringence liquid crystal displays.
- 1 68. The watch face of claim 62 wherein the reflective polarizer layer is positioned in a
- second orientation relative to said polarizer layer, wherein non-rotated light reflects off
- 3 the reflective polarizer layer producing a first background on the watch face and rotated
- 4 light is transmitted through the reflective polarizer layer.
- 1 69. The watch face of claim 62 wherein the reflective layer is a patterned surface.
- 1 70. The watch face of claim 62 wherein the reflective layer is a colored surface.
- The watch face of claim 69 wherein the reflective layer is a colored surface.
- The watch face of claim 62 wherein the reflective layer is a mirrored surface.
 - 73. The watch face of claim 69 wherein the patterned surface is an analog clock face.
- 1 74. The watch face of claim 62 wherein the first and second background are colored.
- The watch face of claim 62 wherein the first background is a first color and the
- 2 second background is a second color.
 - 76. The watch face of claim 62 wherein the first background is a silvered mirror.
- 1 77. The watch face of claim 62 further comprising a color changing layer disposed
- 2 directly above or directly below either of the liquid crystal displays.
- The watch face of claim 77 wherein the coloring lay changing comprises a
- 2 colored polarizer.
- The watch face of claim 77 wherein the color changing layer comprises a
- 2 retardation film.
- 1 80. The watch face of claim 62 wherein said watch face includes a hole extending
- 2 axially therethrough to provide for movement of analog time watch hands.

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- 1 81. The watch face of claim 62 wherein said watch face is disposed within a watch
- 2 module.
- 1 82. The watch module of claim 81 wherein said module is round and said watch face
- 2 is octagonal.
- 1 83. The watch face of claim 62 further comprising voltage switching means, wherein
- 2 said switching means controls a primary voltage selectively applied to at least one of a
- 3 plurality of segment patterns, wherein each pattern is comprised of at least one of the
- 4 plurality of distinct segments in the first liquid crystal display, and a secondary voltage
- 5 applied to said second liquid crystal display.
- 1 84. The watch face of claim 83 wherein said voltage switching means is electronically
- 2 actuated.
 - 85. The watch face of claim 83 wherein said voltage switching means is manually
- 2 actuated.
- 1 86. The watch face of claim 83 wherein said voltage switching means alternates the
 - primary voltage between a first and a second voltage, and the secondary voltage between
 - a third and a fourth voltage.
- 1 87. The watch face of claim 86 wherein said first voltage causes each distinct
- 2 segment in the at least one of said plurality segment patterns to rotate polarized light and
- said second voltage causes each distinct segment in the at least one of said plurality
- 4 segment patterns to not rotate polarized light, and wherein said third voltage causes the
- second liquid display to rotate polarized light and said fourth voltage causes the second
- 6 liquid display to not rotate polarized light.
- 1 88. The watch face of claim 86 wherein said third voltage produces the first
- 2 background and said fourth voltage produces the second background.
- 1 89. The watch face of claim 86 further comprising means for adjusting said primary
- 2 and secondary voltages.

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- 1 90. The watch face of claim 89 where in means for adjusting is electronically
- 2 actuated.
- 1 91. The watch face of claim 89 wherein means for adjusting is manually actuated.
- 1 92. The watch face of claim 83 further comprising a pattern selection means, wherein
- 2 said selection means controls and selects the at least one of said plurality of segment
- 3 patterns.
- 1 93. The watch face of claim 92wherein said pattern selection means is electronically
- 2 actuated.
 - 94. The watch face of claim 92 wherein said pattern selection means is manually actuated.

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type liquid crystal displays.

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The watch face of claim 95 wherein the liquid crystal displays are twisted nematic

- 1 100. The watch face of claim 95 wherein the liquid crystal displays are electronically
- 2 controlled birefringence liquid crystal displays.
- 1 101. The watch face of claim 95 wherein the reflective polarizer layer is positioned in a
- second orientation relative to said polarizer layer, wherein non-rotated light reflects off
- 3 the reflective polarizer layer producing a first background on the watch face and rotated
- 4 light is transmitted through the reflective polarizer layer.
- 1 102. The watch face of claim 95 wherein the reflective layer is a patterned surface.
- 1 103. The watch face of claim 95 wherein the reflective layer is a colored surface.
- 1 104. The watch face of claim 95 wherein the reflective layer is a colored surface.
- 1 105. The watch face of claim 95 wherein the reflective layer is a mirrored surface.
 - 106. The watch face of claim 102 wherein the patterned surface is an analog clock
 - face.
 - 107. The watch face of claim 95 wherein the first and second background are colored.
 - 108. The watch face of claim 95 wherein the first background is a first color and the second background is a second color.
- 1 109. The watch face of claim 95 wherein the first background is a silvered mirror.
- 1 110. The watch face of claim 95 further comprising a color changing layer disposed
- 2 directly above or directly below either of the liquid crystal displays.
- 1 111. The watch face of claim 110 wherein the coloring lay changing comprises a
- 2 colored polarizer.
- 1 112. The watch face of claim 110 wherein the color changing layer comprises a
- 2 retardation film.

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- 1 113. The watch face of claim 95 wherein said watch face includes a hole extending
- 2 axially therethrough to provide for movement of analog time watch hands.
- 1 114. The watch face of claim 95 wherein said watch face is disposed within a watch
- 2 module.
- 1 115. The watch module of claim 114 wherein said module is round and said watch face
- 2 is octagonal.
- 1 116. The watch face of claim 95 further comprising voltage switching means, wherein
- 2 said switching means controls a primary voltage selectively applied to at least one of a
- 3 plurality of segment patterns, wherein each pattern is comprised of at least one of the
 - plurality of distinct segments in the second liquid crystal display, and a secondary voltage
 - applied to said first liquid crystal display.
 - 117. The watch face of claim 116 wherein said voltage switching means is
- 2 electronically actuated.
 - 118. The watch face of claim 116 wherein said voltage switching means is manually
- 2 actuated.
- 1 119. The watch face of claim 116 wherein said voltage switching means alternates the
- 2 primary voltage between a first and a second voltage, and the secondary voltage between
- 3 a third and a fourth voltage.
- 1 120. The watch face of claim 119 wherein said first voltage causes each distinct
- 2 segment in the at least one of said plurality segment patterns to rotate polarized light and
- 3 said second voltage causes each distinct segment in the at least one of said plurality
- 4 segment patterns to not rotate polarized light, and wherein said third voltage causes the
- second liquid display to rotate polarized light and said fourth voltage causes the second
- 6 liquid display to not rotate polarized light.
- 1 121. The watch face of claim 119 wherein said third voltage produces the first
- 2 background and said fourth voltage produces the second background.

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- 1 122. The watch face of claim 119 further comprising means for adjusting said primary
- 2 and secondary voltages.
- 1 123. The watch face of claim 122 where in means for adjusting is electronically
- 2 actuated.
- 1 124. The watch face of claim 122 wherein means for adjusting is manually actuated.
- 1 125. The watch face of claim 116 further comprising a pattern selection means,
- wherein said selection means controls and selects the at least one of said plurality of
- 3 segment patterns.
 - 126. The watch face of claim 125 wherein said pattern selection means is electronically actuated.
 - 127. The watch face of claim 125 wherein said pattern selection means is manually actuated.

another.

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- 1 133. The watch face of claim 128 wherein said first plurality of distinct segments in the
- 2 first liquid crystal display comprise a digital character display.
- 1 134. The watch face of claim 133 wherein said first and second pluralities of distinct
- 2 segments in the first and second liquid crystal displays each comprise a digital character
- display.
- 1 135. The watch face of claim 134 wherein said digital character displays complement
- 2 one another.
- 1 136. The watch face of claim 128 wherein the polarizer layer comprises a neutral
- 2 polarizer.
- 1 137. The watch face of claim 128 wherein the polarizer layer comprises a colored
- 2 polarizer.
 - 138. The watch face of claim 128 wherein the liquid crystal display is a twisted
- 2 nematic liquid crystal display.
- 1 139. The watch face of claim 128 wherein the liquid crystal display is an electronically
- 2 controlled birefringence liquid crystal display.
- 1 140. The watch face of claim 128 wherein the reflective polarizer layer is positioned in
- a second orientation relative to said polarizer layer, wherein non-rotated light reflects off
- 3 the reflective polarizer layer producing a first background on the watch face and rotated
- 4 light is transmitted through the reflective polarizer layer.
- 1 141. The watch face of claim 128 wherein the reflective layer is a patterned surface.
- 1 142 The watch face of claim 128 wherein the reflective layer is a colored surface.
- 1 143. The watch face of claim 128 wherein the reflective layer is a colored surface.
- 1 144. The watch face of claim 128 wherein the reflective layer is a mirrored surface.

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- 1 145. The watch face of claim 128 wherein the patterned surface is an analog clock
- 2 face.
- 1 146. The watch face of claim 128 wherein the first and second background are colored.
- 1 147. The watch face of claim 128 wherein the first background is a first color and the
- 2 second background is a second color.
- 1 148. The watch face of claim 147 wherein the first background is a silvered mirror.
- 1 149. The watch face of claim 128 further comprising a color changing layer disposed
- 2 directly above the first liquid crystal display or directly below the second liquid crystal
- 3 display.
- 1 150. The watch face of claim 149 wherein the color changing layer comprises a
- 2 colored polarizer.
 - 151. The watch face of claim 149 wherein the color changing layer comprises a
- 2 retardation film.
- 1 152. The watch face of claim 128 wherein the watch face facilitates analog or digital
- 2 time display.
- 1 153. The watch face of claim 128 wherein the watch face includes a hole extending
- 2 axially therethrough to provide for analog time movement of watch hands.
- 1 154. The watch face of claim 128 wherein the watch face is disposed within a watch
- 2 module.
- 1 155. The watch module of claim 154 wherein said module is round and said watch face
- 2 is octagonal.
- 1 156. The watch face of claim 128 further comprising voltage switching means, wherein
- 2 said switching means controls a primary voltage selectively applied to at least one of a
- 3 first plurality of segment patterns, wherein each pattern is comprised of at least one of the

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- 4 plurality of distinct segments in the first liquid crystal display, and a secondary voltage
- selectively applied to at least one of a second plurality of segment patterns, wherein each
- 6 pattern is comprised of at least one of the plurality of distinct segments in the second
- 7 liquid crystal display.
- 1 157. The watch face of claim 156 wherein said voltage switching means is
- 2 electronically actuated.
- 1 158. The watch face of claim 156 wherein said voltage switching means is manually
- 2 actuated.
- 1 159. The watch face of claim 156 wherein said voltage switching means alternates the
- 2 primary voltage between a first and a second voltage, and the secondary voltage between
- a third and a fourth voltage.
 - 1 160. The watch face of claim 159 wherein said first voltage causes each distinct
 - 2 segment in the at least one of said first plurality of segment patterns to rotate polarized
 - light and said second voltage causes each distinct segment in the at least one of said
 - second plurality of segment patterns to not rotate polarized light, and wherein said third
 - voltage causes the each distinct segment in the at least one of said second plurality of
 - segment patterns to rotate polarized light and said fourth voltage causes each distinct
 - segment in the at least one of said fourth plurality of segment patterns to not rotate
 - 8 polarized light.
 - 1 161. The watch face of claim 159 wherein said third voltage produces the first
 - 2 background and said fourth voltage produces the second background.
 - 1 162. The watch face of claim 159 further comprising means for adjusting said primary
 - 2 and secondary voltages.
 - 1 163. The watch face of claim 162 where in means for adjusting is electronically
 - 2 actuated.
 - 1 164. The watch face of claim 162 wherein means for adjusting is manually actuated.

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- 1 165. The watch face of claim 156 further comprising a pattern selection means, wherein said selection means controls and selects the at least one of each said pluralities of
- 3 segment patterns.
- 1 166. The watch face of claim 165 wherein said pattern selection means is electronically actuated.
- 1 167. The watch face of claim 165 wherein said pattern selection means is manually actuated.

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The watch comprising:

- 2 a watch case comprising within a display unit and two batteries, wherein said batteries are positioned alongside said unit.
- 1 169. The watch of claim 168, further comprising an analog watch movement.
- 1 170. The watch of claim 168, wherein said display unit comprises a printed circuit 2 board and a liquid crystal display.
- 1 171. The watch of claim 170, further comprising an analog watch movement.
- 1 172. The watch of claim 168, wherein said batteries are 1.5 volt silver oxide batteries.
 - 173. The watch of claim 168 wherein said display unit includes a hole extending axially therethrough to provide for movement of analog time watch hands.